

**NOV 27 2006****ABSTRACT**

A distillation process for separating a target component from a mixture containing a solvent and the target includes the steps of flashing off a vapor mixture of said solvent and said target in an evaporator, separating said target from said vapor mixture, and providing additional solvent to said evaporator to maintain the temperature of said evaporator substantially below the boiling point of said target. The process also includes the step of removing accumulated non-volatile components from said evaporator by allowing the non-volatile components to precipitate from a mixture of the target and the solvent.